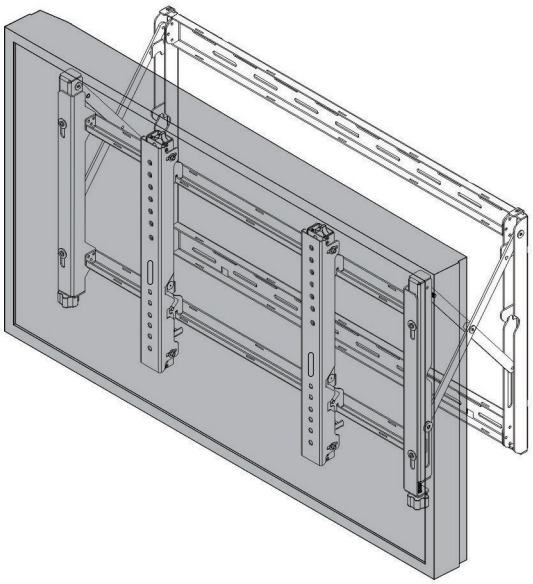
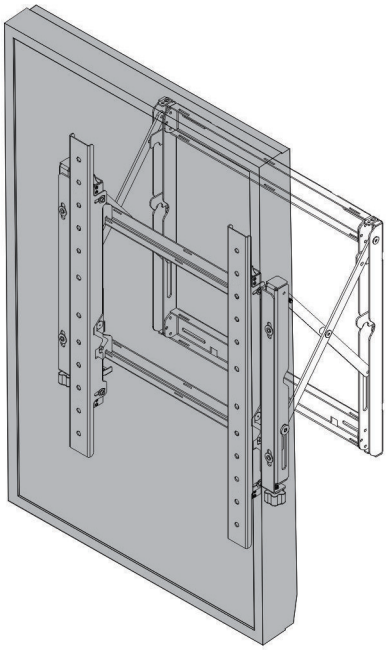
ML10/MP10 40-65″ LCD Video Wall Mount Instruction Sheet

The ML10/MP10 is a full-service video wall mount that can accommodate LCD flat panels between 40" to 65" diagonal. The ML10 mount is used for landscape orientations and the MP10 mount is used for portrait orientations. The modular mount system features an innovative pull-out/prop-open hinge mechanism that provides rear screen access, the ability to adjust alignment in XYZ axis and wall plate spacers that set each mount into position.
For details, see ***Spacer Kit Instruction Sheet (P/N: 020-100728-xx)***.

ML10 – Landscape



MP10 – Portrait



FEATURES

- Modular mount for large video wall display configurations.
- Tool-less adjustments of panels for optimal gaps.
- Spring-loaded mechanisms secure displays.
- Pull-out/prop-open mechanism provides quick service access.
- Integrated cable management tie-backs make display-to-display cabling simple.
- Included security hardware prevents the mount from extending out from the wall.
- Adjustable VESA® mounting hole patterns in 100 mm (3.9”) increments, starting at 200 x 200 mm (7.9” x 7.9”) up to 700 x 400 mm (27.5” x 15.7”) for ML10 LCD mounts. Additional patterns supported with adapter plates.
- Adjustable VESA® mounting hole patterns in 100 mm (3.9”) increments, starting at 200 x 200 mm (7.9” x 7.9”) up to 600 x 400 mm (23.6” x 15.7”) for MP10 LCD mounts. Additional patterns supported with adapter plates.

KITS REQUIRED

- LCD Mount 40-65” ML10 (Landscape) P/N: 135-101103-xx
- LCD Mount 40-65” MP10 (Portrait) P/N: 135-104106-xx

OPTIONAL KITS

- Spacer Kit 55” ML10 (Landscape) P/N: 135-102104-xx
- Spacer Kit 55” MP10 (Portrait) P/N: 135-107109-xx

OTHER AVAILABLE RESOURCES

- LCD Panel FHD551-X User Manual (P/N: 020-100713-xx)
- Spacer Kit Instruction Sheet (P/N: 020-100728-xx)

TOOLS REQUIRED

- Stud finder (edge-to-edge stud finder is recommended)
- Phillips® screwdriver
- Drill
- 5/16” (8 mm) bit for concrete and cinder block walls
- 5/43” (4 mm) bit for wood stud walls
- Level

WARNINGS AND CAUTIONS

⚠ WARNING

- **Do not begin installation until you have read and understood the instructions and warnings outlined in this document.**
- **This product should only be installed by someone of good mechanical aptitude.**
- **Make sure that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.**
- **Never exceed the Maximum Load Capacity of 125 lbs (57 kg).**
- **Extreme care must be taken when pushing the mounted display into its locked position. Always handle the display on the opposing corners of the frame to avoid direct contact with the LCD glass.**
- **If mounting to wood wall studs, make sure that the mounting screws are anchored into the center of the studs. Use of an "edge-to-edge" stud finder is highly recommended.**
- **Always use an assistant or mechanical lifting equipment to safely lift and position the equipment.**

⚠ CAUTION

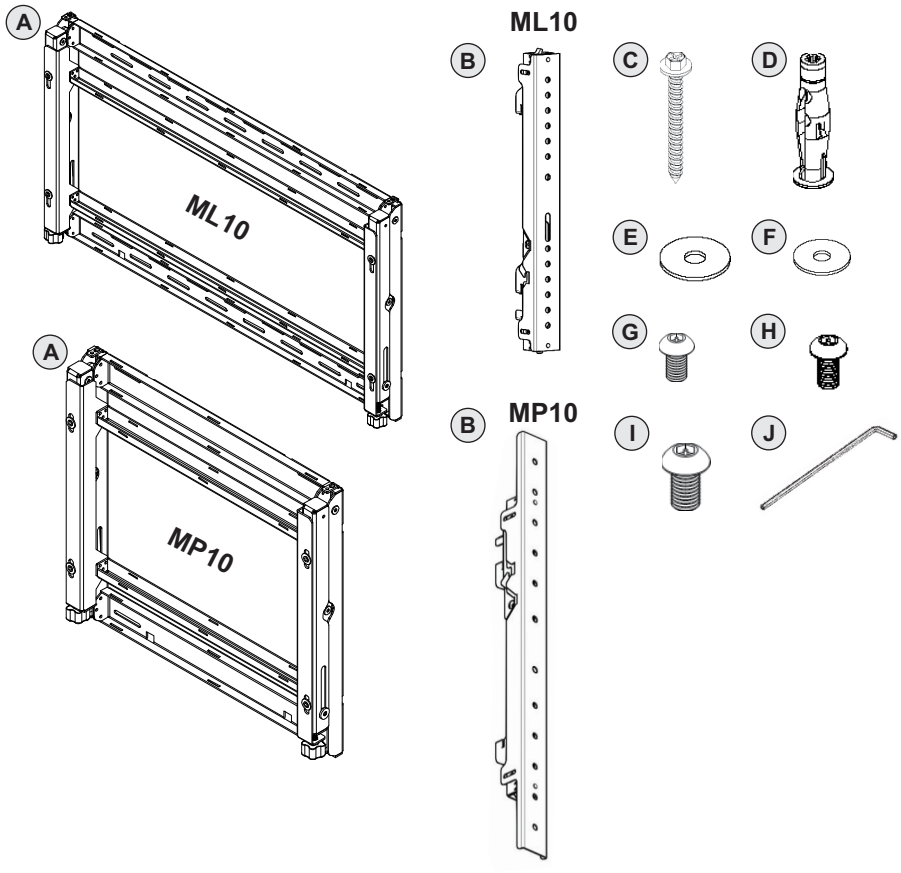
- **Tighten screws firmly, but do not overtighten. Overtightening can damage the items, greatly reducing their holding power.**
- **This product is intended for indoor use only. Use of this product outdoors can lead to product failure and personal injury.**

TYPES OF INSTALLATIONS

Wall Construction	Hardware Required
• Wood Stud	Included
• Wood Beam	Included
• Solid Concrete	Included
• Cinder Block	Included
• Metal Stud	Contact Qualified Professional
• Brick	Contact Qualified Professional
• Other	Contact Qualified Professional

ML10/MP10 REQUIRED PARTS

	Description	Qty.
A	Pull out mount assembly	1
B	Adapter Bracket	2
C	#14 x 2.5” hex head woodscrew	4
D	Concrete anchor	4
E	Fender washer	4
F	Nylon shoulder washer	4
G	M5 x 10 mm socket pin type-F screw	2
H	M6 x 12 mm socket pin screw	4
I	M8 x 15 mm socket pin screw	4
J	4mm Allen wrench	1
/	Mesh sleeve (not shown)	1
/	Cable tie (not shown)	2



INSTRUCTIONS

This section explains how to install and connect the FHD551-X LCD Panel to the video wall mount. For information on the LCD panel, refer to the ***LCD Panel FHD551-X User Manual (P/N: 020-100713-xx)***. Illustrations are graphical representations only and are provided to enhance the understanding of the written material.

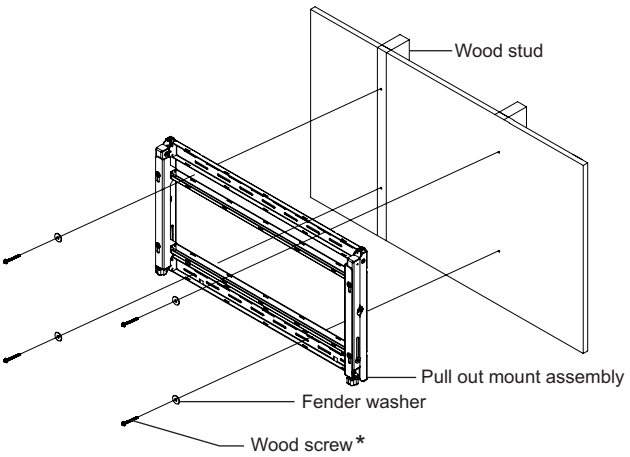
INSTALLATION TO WALL STUD

⚠ WARNING

- **Tighten wood screws so that the wall plate is firmly attached, but do not overtighten. Never tighten in excess of 80 in-lbs (9Nm).**
- **Hardware provided is for attaching the mount through standard thickness drywall or plaster into wood studs. Installers are responsible to provide the hardware for other types of mounting situations.**

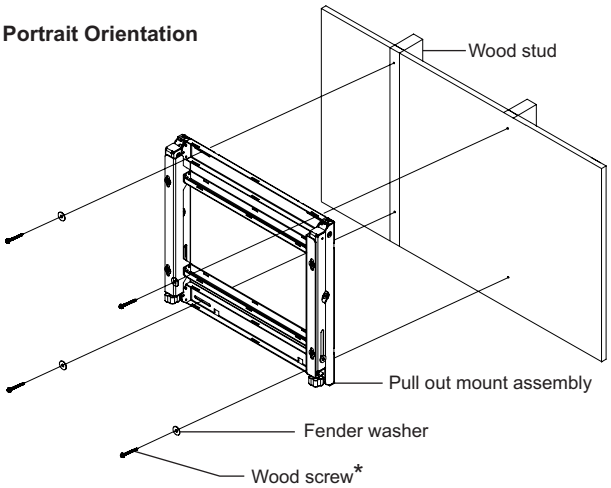
1. Use a stud finder to locate the edges of the stud. Use of an “edge-to-edge” stud finder is highly recommended. Based on their edges, draw a vertical line down the stud center.
2. Place the pull out mount assembly on the wall to use as a template.
3. Make sure the pull out mount is level and mark the center of the 4 mounting holes. Make sure that the mounting holes are on the stud center line. Drill four 5/32" (4 mm) diameter holes 2-1/2" (65 mm) deep.
4. Make sure that the pull out mount assembly is level, secure it using 4 #14 x 2.5" wood screws and fender washers.

Landscape Orientation



** Make sure there is a minimum 16” (406.4 mm) horizontal distance between the #14 x2.5” screws.*

Portrait Orientation

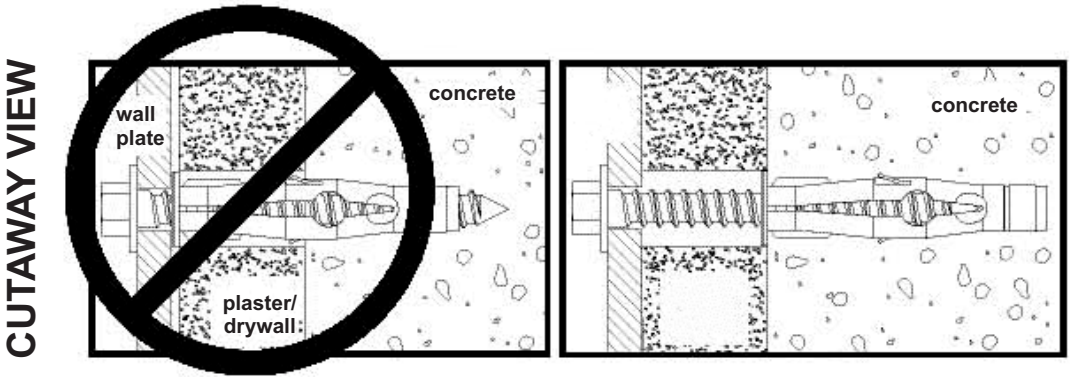


INSTALLATION TO SOLID CONCRETE OR CINDER BLOCK

⚠ WARNING

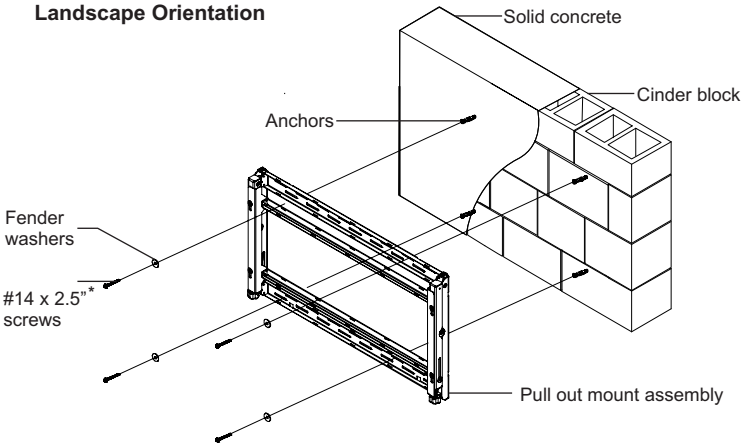
- **When installing wall mounts onto cinder blocks, verify that you have a minimum of 1-3/8" (35 mm) of actual concrete thickness in the hole to be used for the concrete anchors. Do not drill into mortar joints. Be sure to mount in a solid part of the block, generally 1" (25 mm) minimum from the side of the block. Cinder block must meet ASTM C-90 specifications. It is suggested that a standard electric drill on slow setting is used to drill the hole instead of a hammer drill to avoid breaking out the back of the hole when entering a void or cavity.**
- **Concrete must be a minimum of 2000 psi density. Lighter density concrete may not hold the concrete anchor.**
- **Make sure that the wall will safely support 4 times the combined load of the equipment and all attached hardware and components.**
- **Tighten screws so that the wall plate is firmly attached. Never tighten in excess of 80 in lbs (9Nm).**
- **Always attach concrete expansion anchors directly to load-bearing concrete.**
- **Never attach concrete expansion anchors to concrete covered with plaster, drywall, or other finishing material. If mounting to concrete surfaces covered with a finishing surface is unavoidable, the finishing surface must be counter bored, as shown in the image below. Make sure concrete anchors do not pull away from the concrete when tightening screws. If plaster/drywall is thicker than 5/8" (16 mm), custom fasteners must be supplied by the installer.**

Mounting to concrete surface with a finishing surface



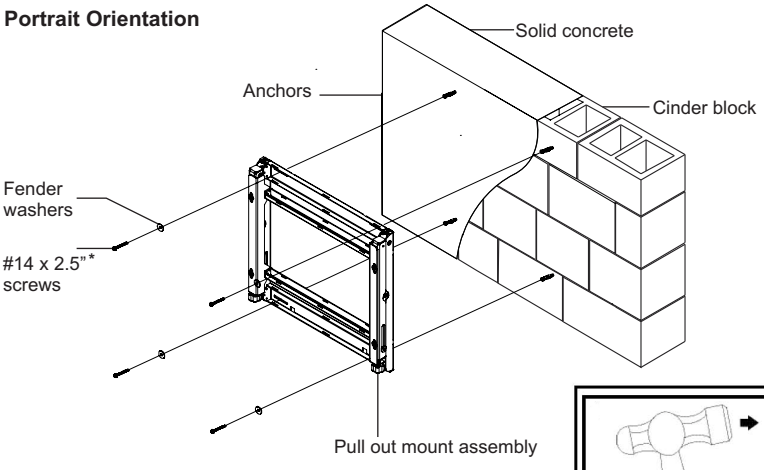
1. Make sure that the pull out mount assembly is level – use it as a template to mark 4 mounting holes.
2. Drill four 1/4” (6 mm) diameter holes to a minimum depth of 2.5” (64 mm).
3. Insert anchors into the holes flush with the wall.
4. Place the pull out mount assembly over the anchors and secure it with four #14 x 2.5” screws, and fender washers.
5. Level and then tighten all fasteners.

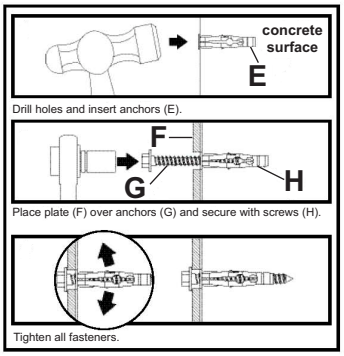
Landscape Orientation



***** *Make sure there is a minimum 16” (406.4 mm) horizontal distance between the #14 x2.5” screws.*

Portrait Orientation





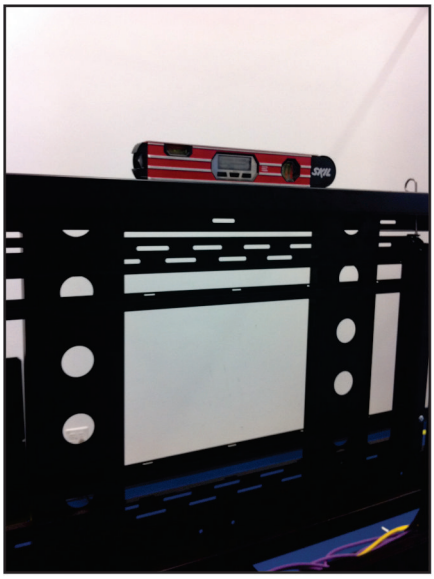
INSTALLATION TO F100 FRAME

⚠ WARNING Verify that the combined load of the equipment and all attached hardware and components do not exceed the maximum load, as specified in the P100 Pedestal and F100 Frame Installation Manual (P/N: 020-100734-xx).

1. Make sure all components within the video wall are level, starting with the P100 Pedestal. If the floor surface is not level adjust the feet on the pedestal. For details, see ***P100 Pedestal and F100 Frame Installation Manual (020-100734-xx)***.
2. Install the F100 Frame onto the pedestal. See ***P100 Pedestal and F100 Frame Installation Manual (020-100734-xx)***.

NOTE: *If the F100 Frame is used as stand alone unit it must be leveled before securing the wall mount.*

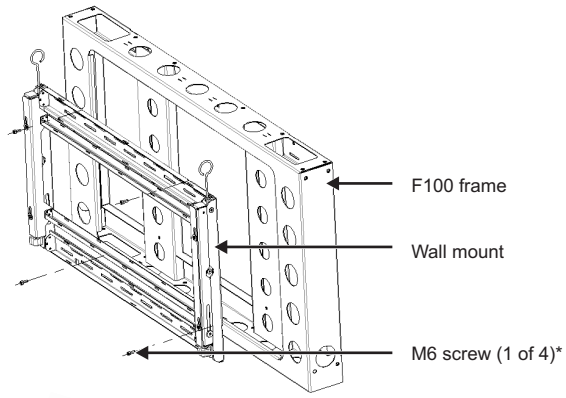
3. Before installing the wall mount use a standard level to check alignment on the horizontal and vertical edge of the frame.



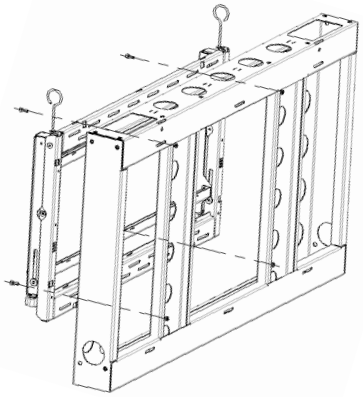
4. Position the wall mount within the center of the frame, aligning it with the mounting holes.

5. Tighten the wall mount to the F100 Frame using the 4 M6 screws. Never tighten in excess of 80 in-lbs (9Nm).

Front View

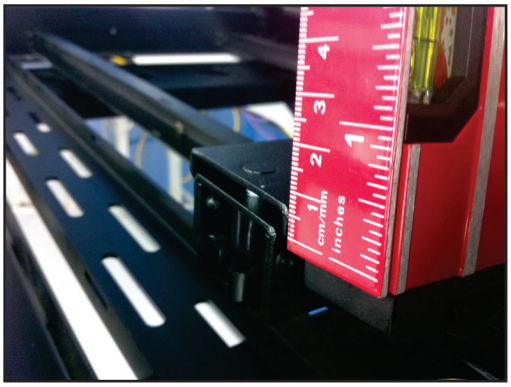


Back View

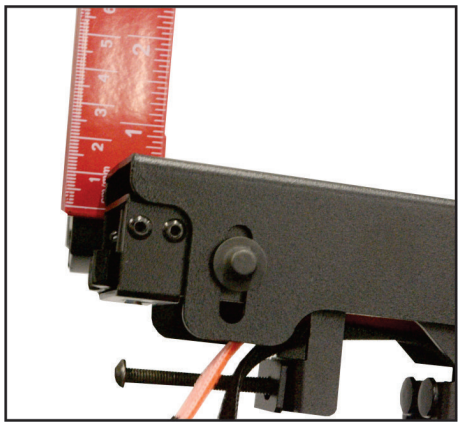


** M6 screws provided with F100 frame hardware kit (P/N: 000-102673-xx*

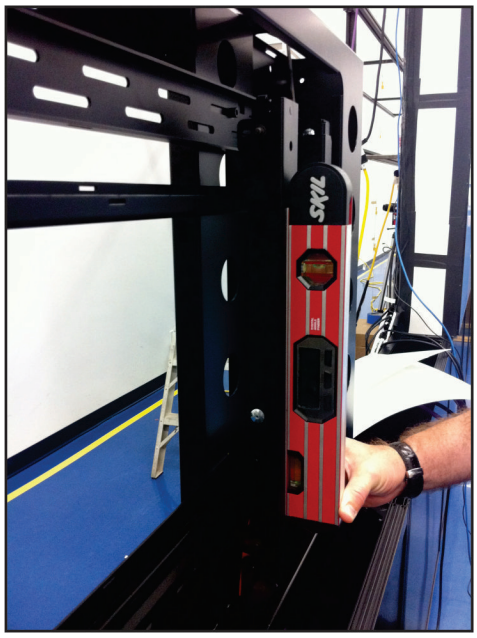
6. For good screen planarity within a video wall adjust the top knob of the adapter bracket to achieve a 5 mm (0.19”) gap.



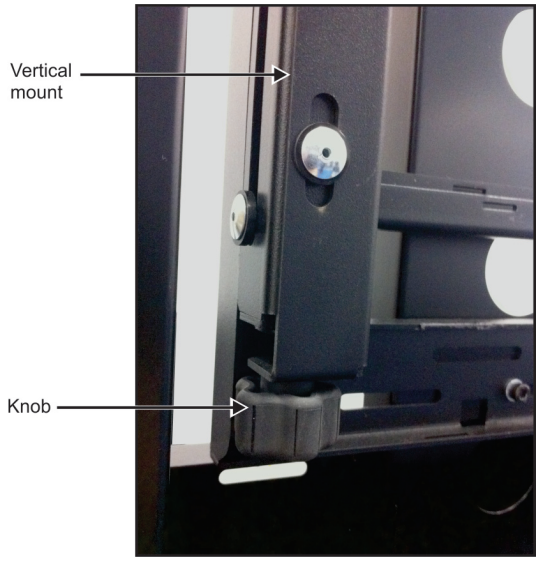
7. Adjust the bottom knob of the adapter bracket to achieve a 10 mm (0.39”) gap. If further adjustment is required, leave a 1 mm (0.04”) minimum clearance to allow the bracket to be easily released.



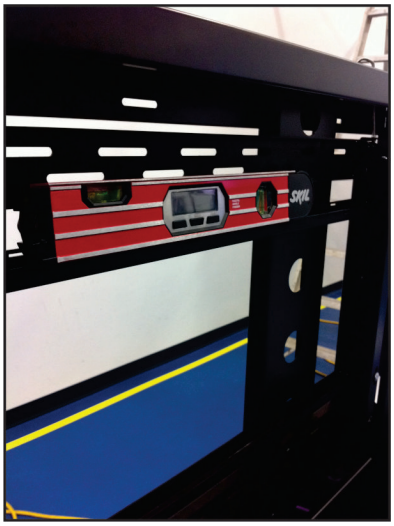
8. Mount the adapter bracket and use a level to check whether or not it is flush.



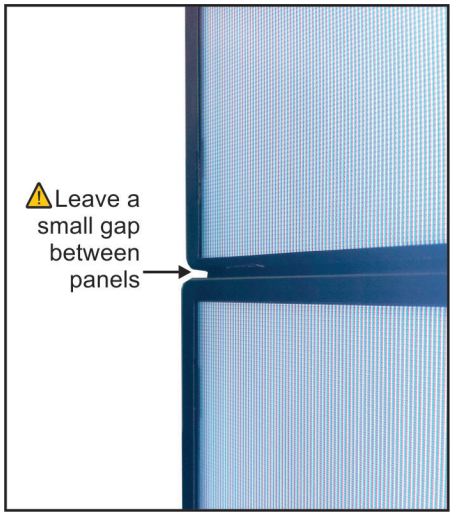
9. Turn the knobs located on the bottom of the mount to adjust the position until it is vertically centered.



10. Check that the mount is level. If necessary fine adjust the vertical position.



11. To avoid damage to the display it is advised to leave a minimum 1 mm (0.04”) gap so the weight of the panels do not rest on the panels underneath. It may be necessary to re-adjust the vertical position to prevent this.



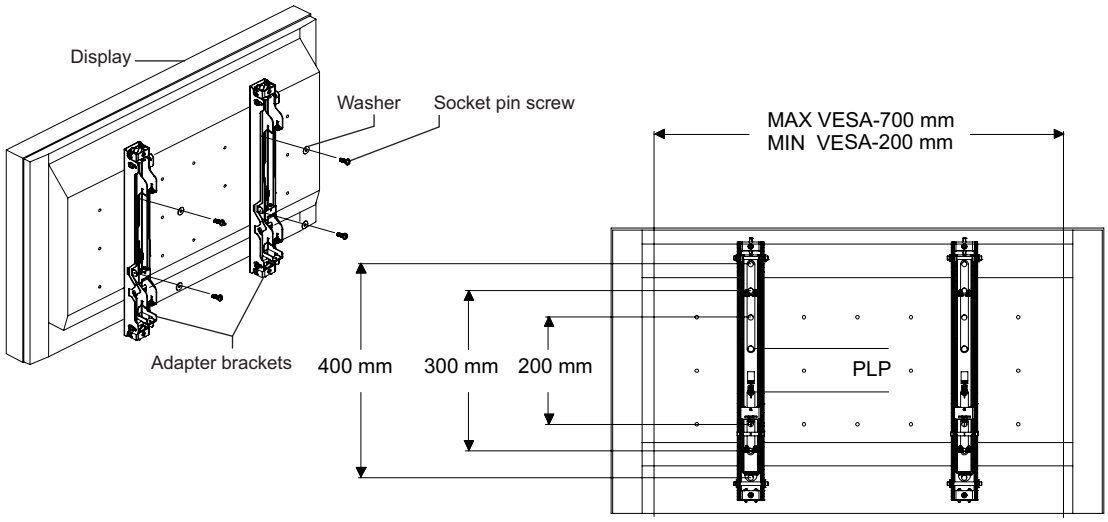
12. Always adjust the X position of panels individually versus pushing an entire row left to right. For example, if you are constructing a 3x3 video wall push the panels individually from the right and left sides, towards the center of the wall.

ATTACH ADAPTER BRACKETS TO DISPLAY

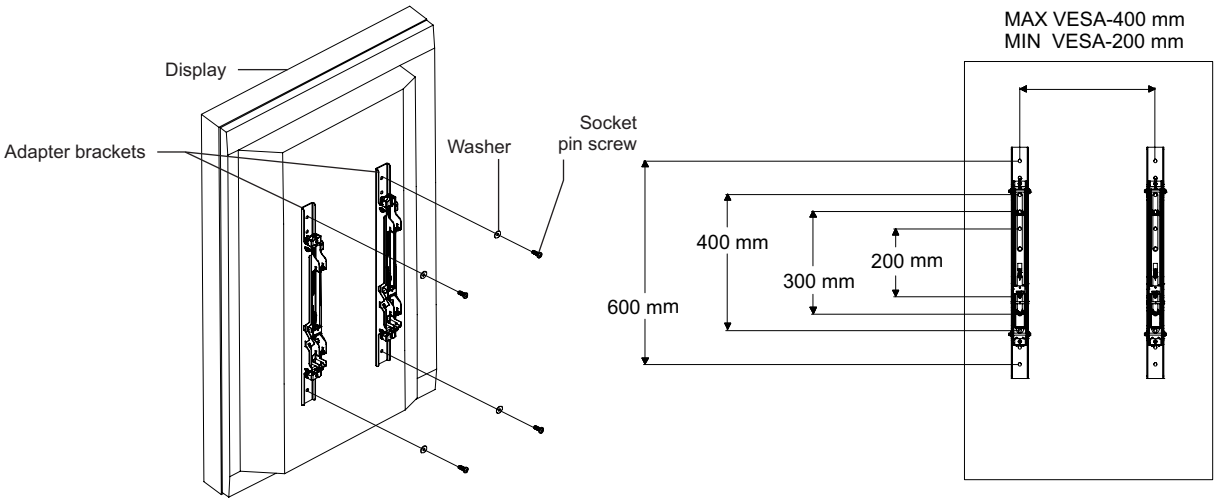
13. Attach the adapter brackets to the back of the display using 4 M6 x 12 mm socket pin screws with a nylon shoulder washer, or 4 M8 x 15 mm socket pin screws, as shown below.

NOTE: *The hardware to attach the dedicated plates to the mount are included with the dedicated plates.*

Landscape Orientation



Portrait Orientation

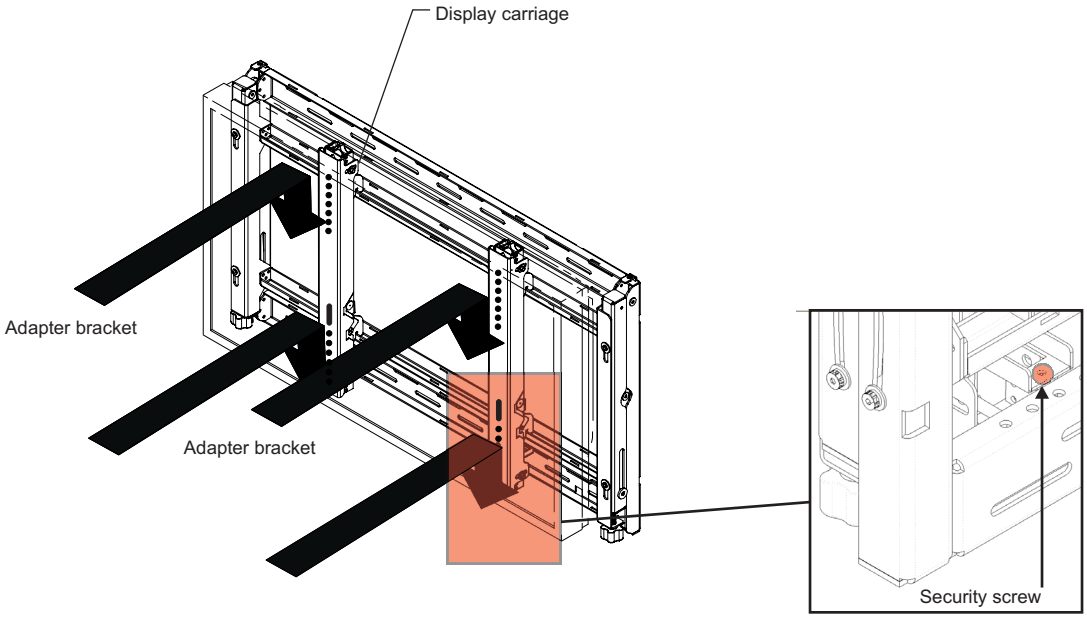


ATTACH ADAPTER BRACKETS TO DISPLAY CARRIAGE

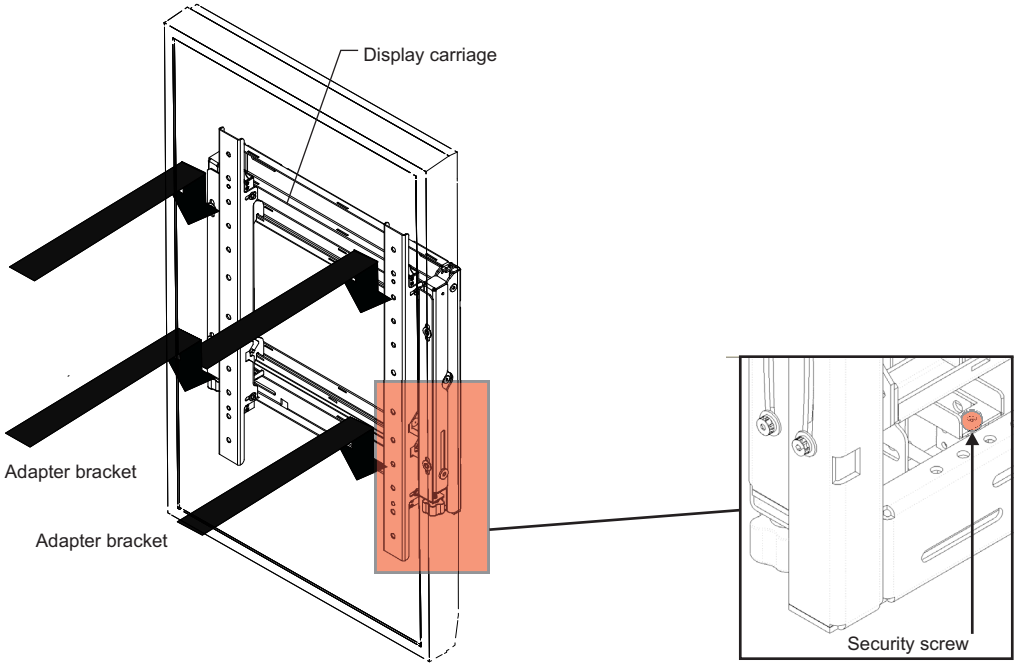
14. Slide the adapter brackets into position. Loosely fasten in place using the security screw, as shown below.

NOTE: *Once the display is located in the desired position (±2”/50.8 mm from center), tighten the security screws using a 4 mm allen wrench to lock it in place.*

Landscape Orientation

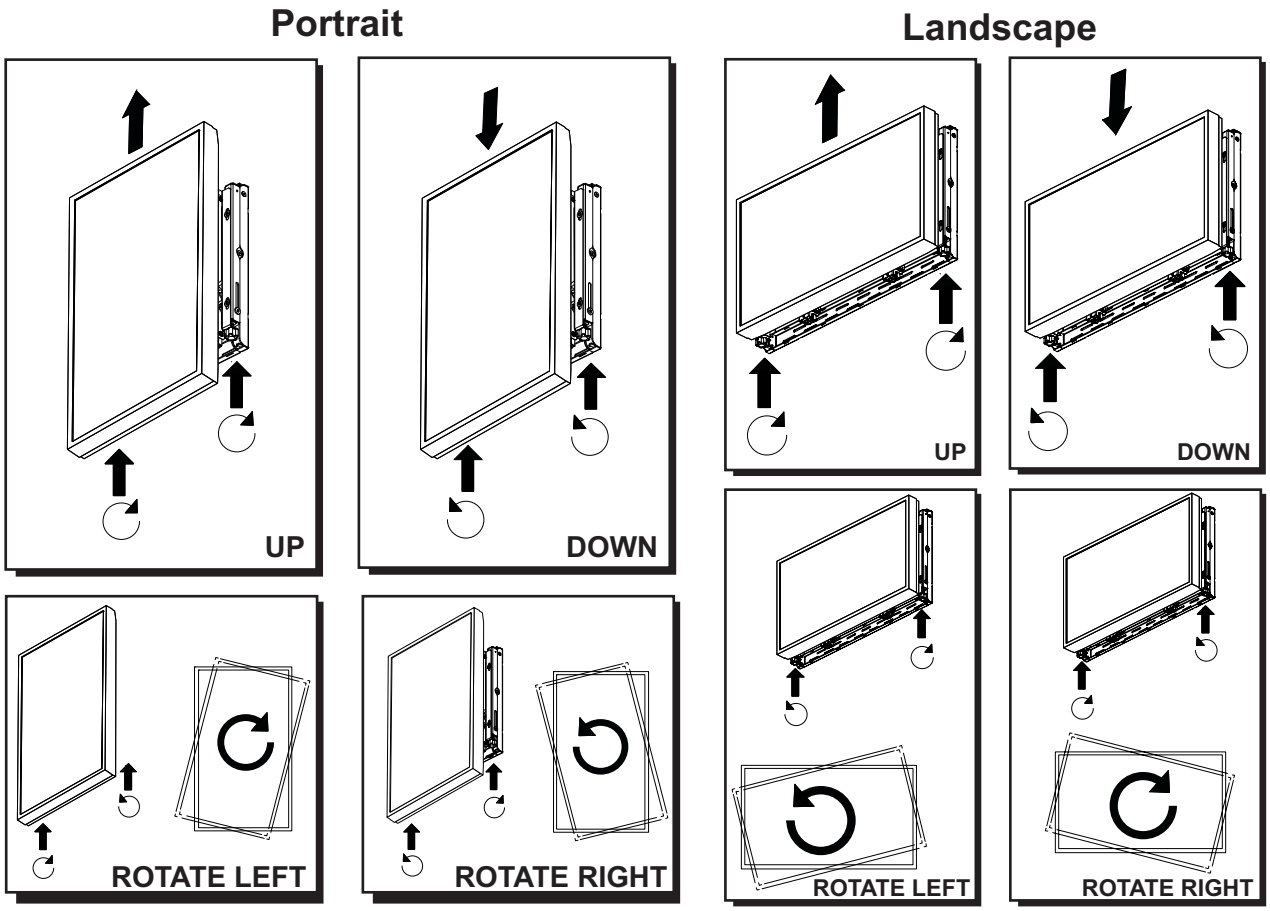


Portrait Orientation



PULL OUT MOUNT ASSEMBLY ADJUSTMENT

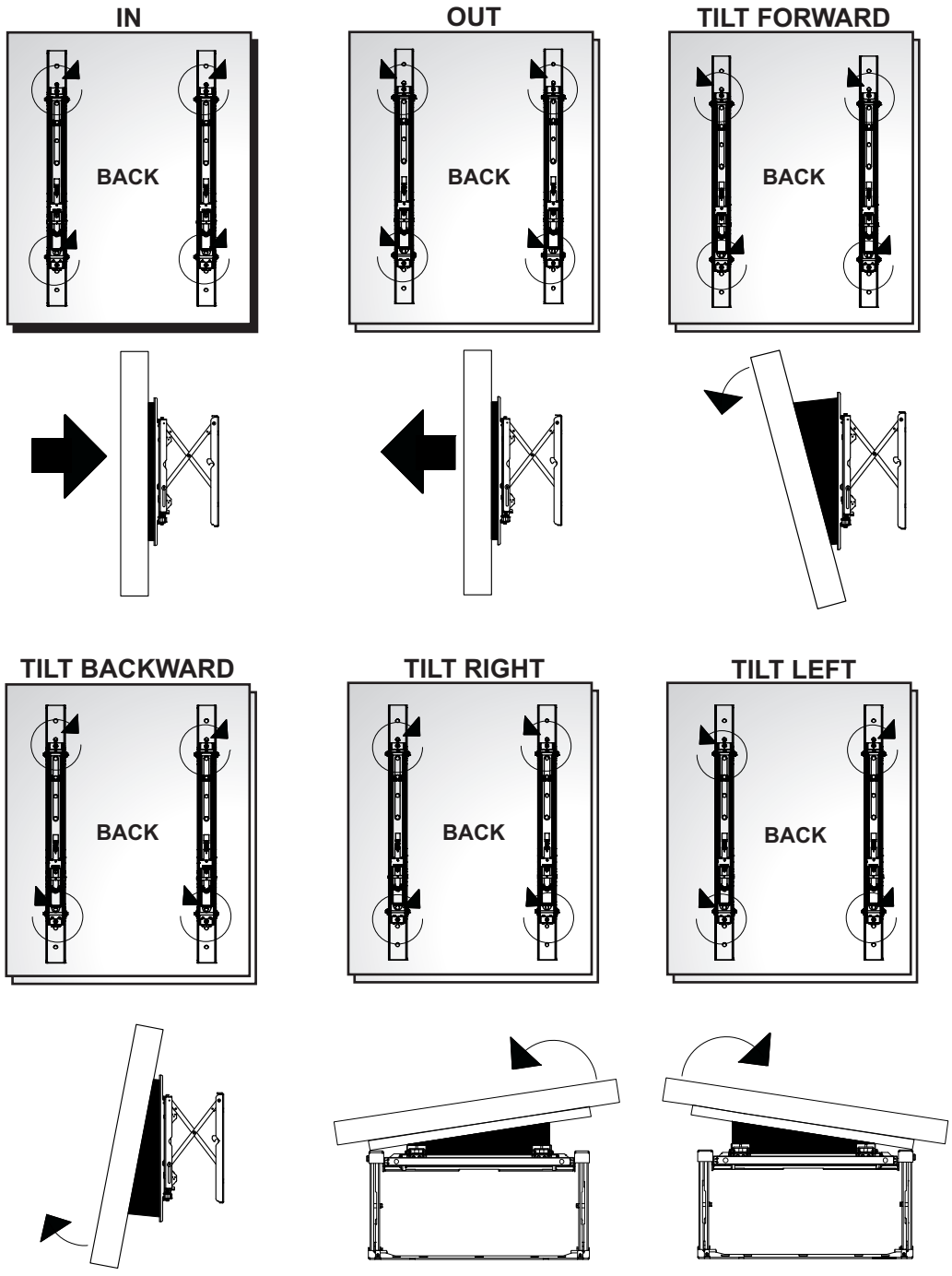
15. Use the illustrations below to determine the position of the display. Each knob can be adjusted independently for fine tuning adjustments. Turn knob clockwise to raise side. Turn knob counter-clockwise to lower side.



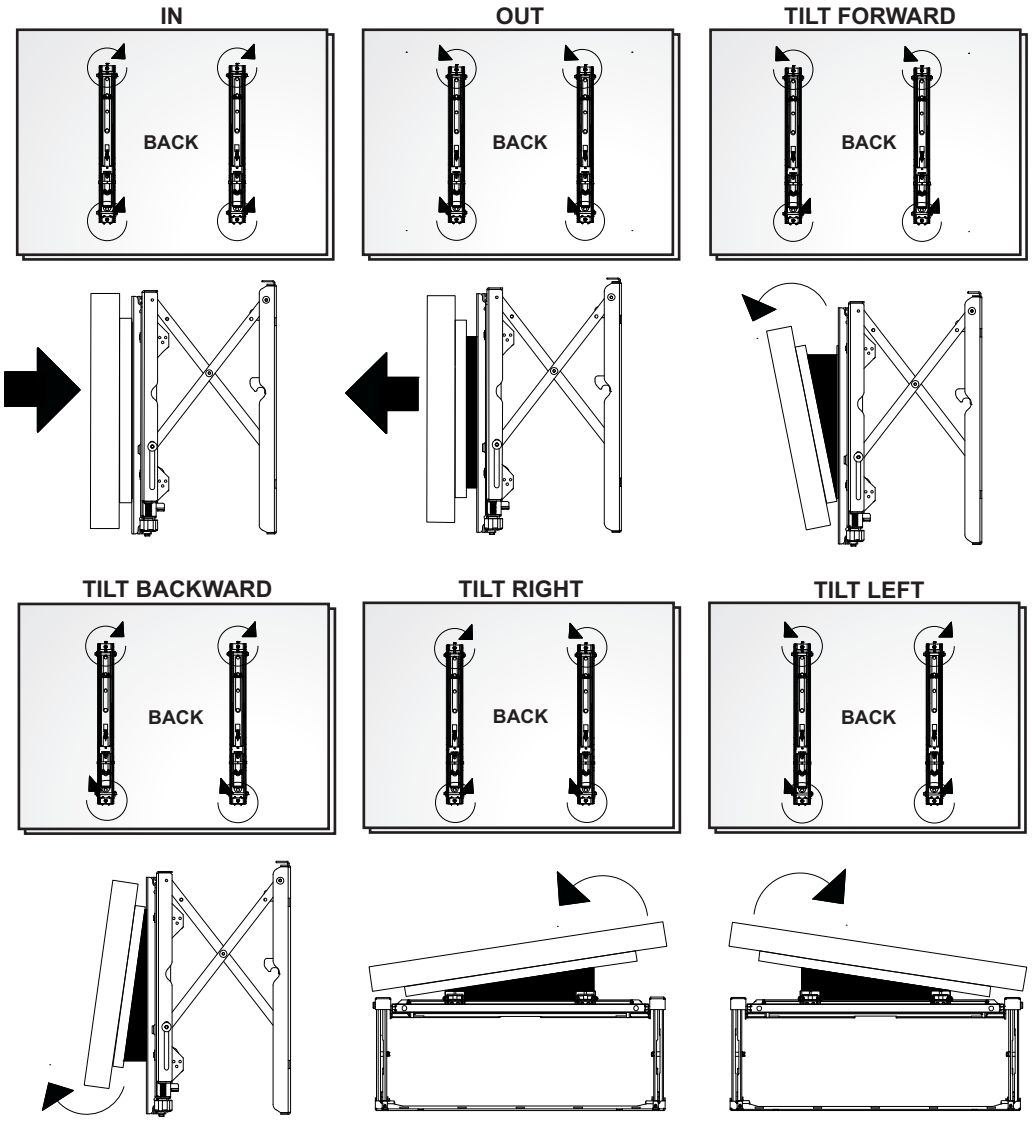
ADAPTER BRACKET ADJUSTMENT

16. Reference the following 2 images for portrait and landscape to determine the displays position. Each knob can be adjusted independently for fine tuning adjustments. Turn knob clockwise to raise side. Turn knob counter-clockwise to lower side.

Adapter Bracket Adjustment – Portrait



Adapter Bracket Adjustment – Landscape

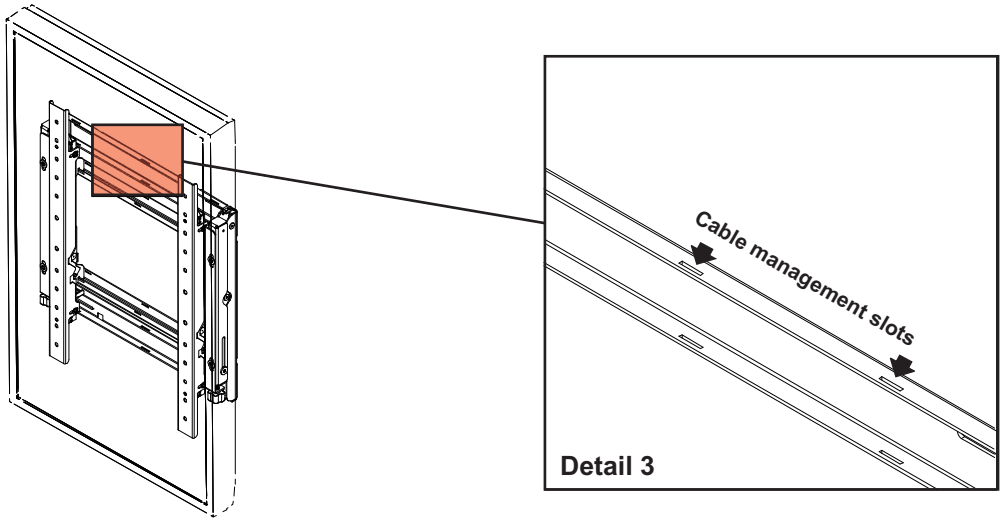


CABLE MANAGEMENT

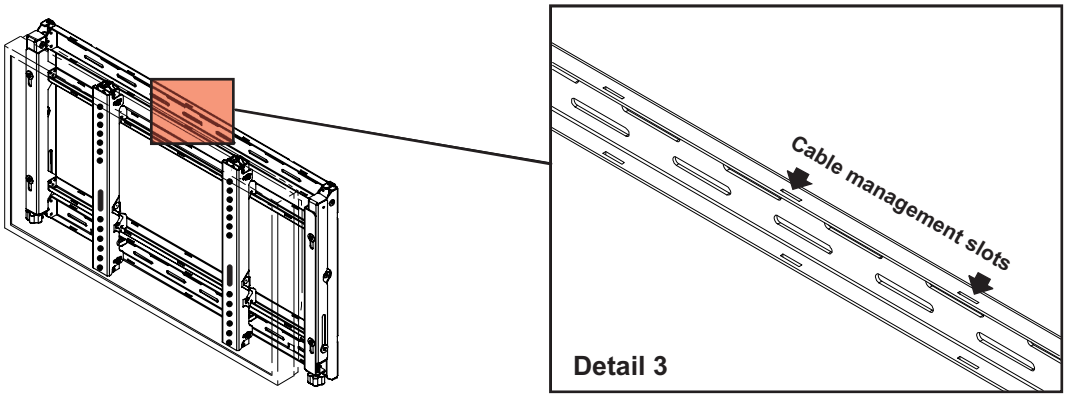
17. Display cables can be routed through the top or bottom of the pull out mount assembly.

NOTES: 1) *Use the mesh sleeve and cable ties for cable management.* **2)** *The cable ties and cable management slots on the pull out mount assembly can be used to secure the display cables.*

Cable Management - Portrait



Cable Management - Landscape

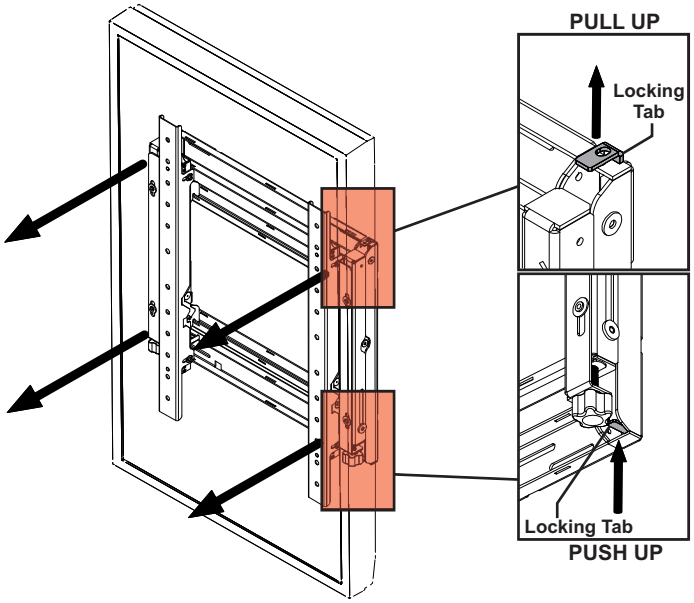


OPEN AND CLOSE PULL OUT MOUNT ASSEMBLY

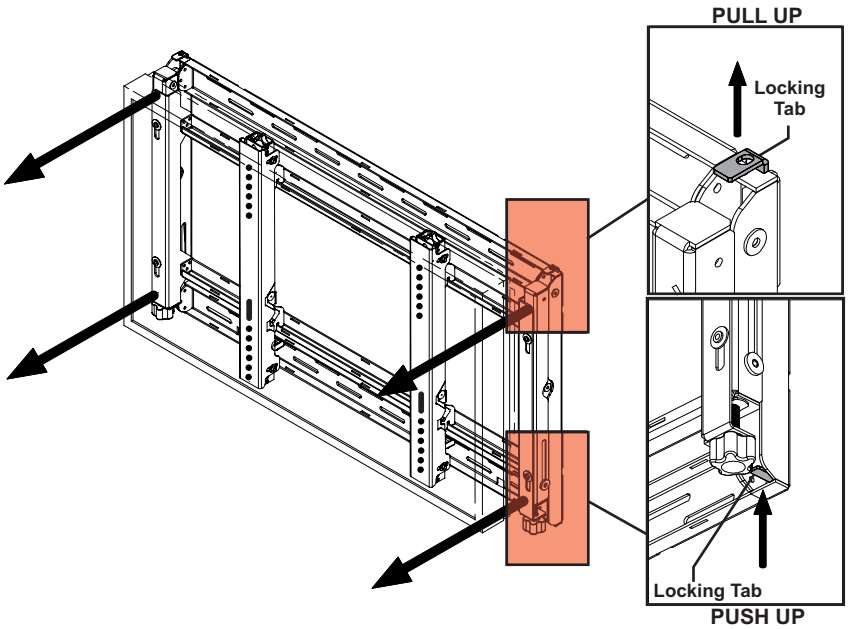
NOTICE: *To avoid damaging the LCD panel always release both locking tabs at the same time and move the panel forwards evenly.*

18. Release the locking tab to open the pull out mount assembly. Push or pull up on the locking tab, as shown in the illustration below.

Pull Out Mount Assembly - Portrait



Pull Out Mount Assembly - Landscape

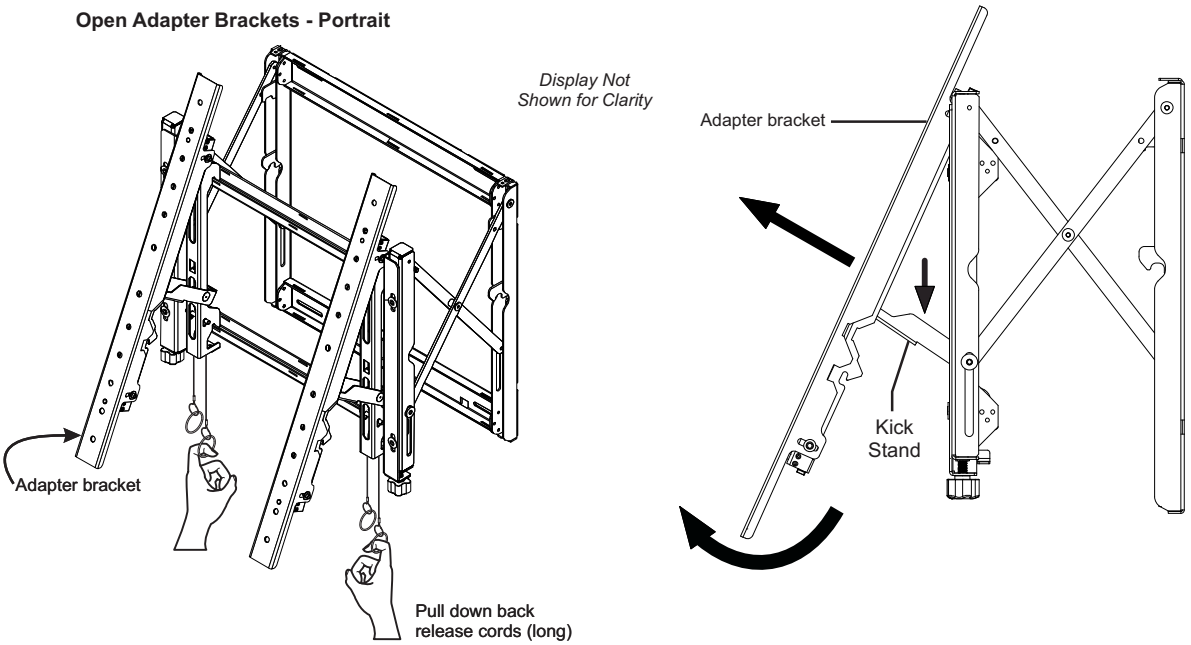


OPEN ADAPTER BRACKETS

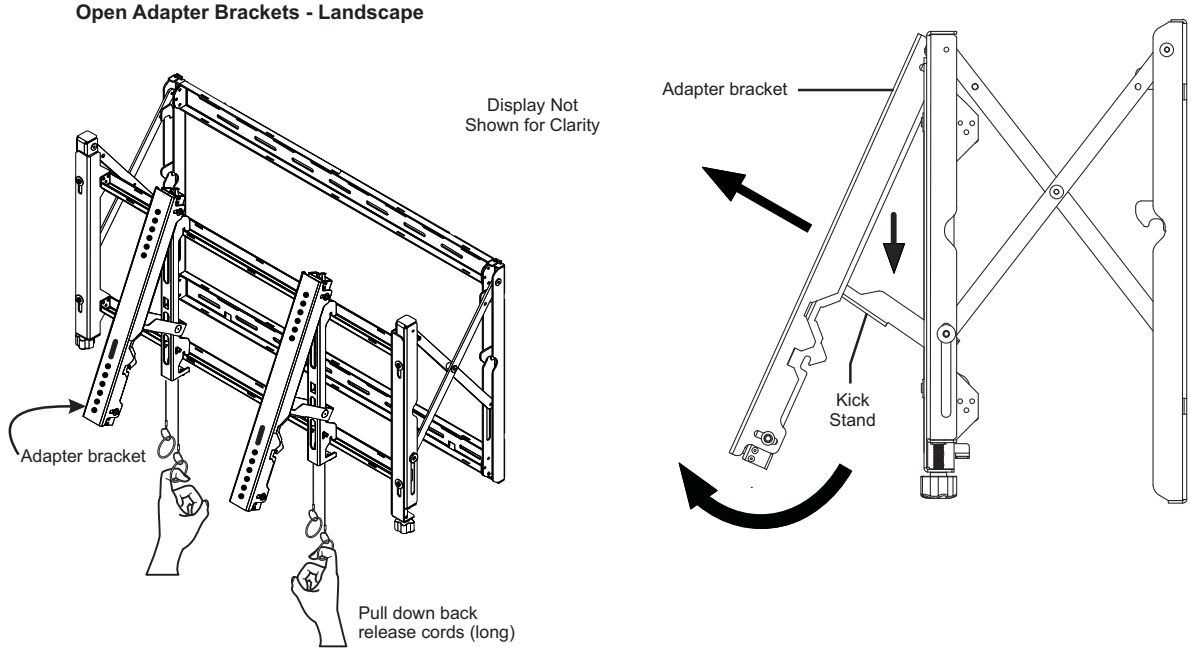
NOTICE: *Two people are required when opening the adapter brackets, one to release the left-side release cord and the other the right-side release cord.*

19. Open the adapter brackets by pulling down on the long back release cords while pulling the bottom of the display away from the wall. Once the back release cords are pulled, the kick stand will engage.

Open Adapter Brackets - Portrait



Open Adapter Brackets - Landscape

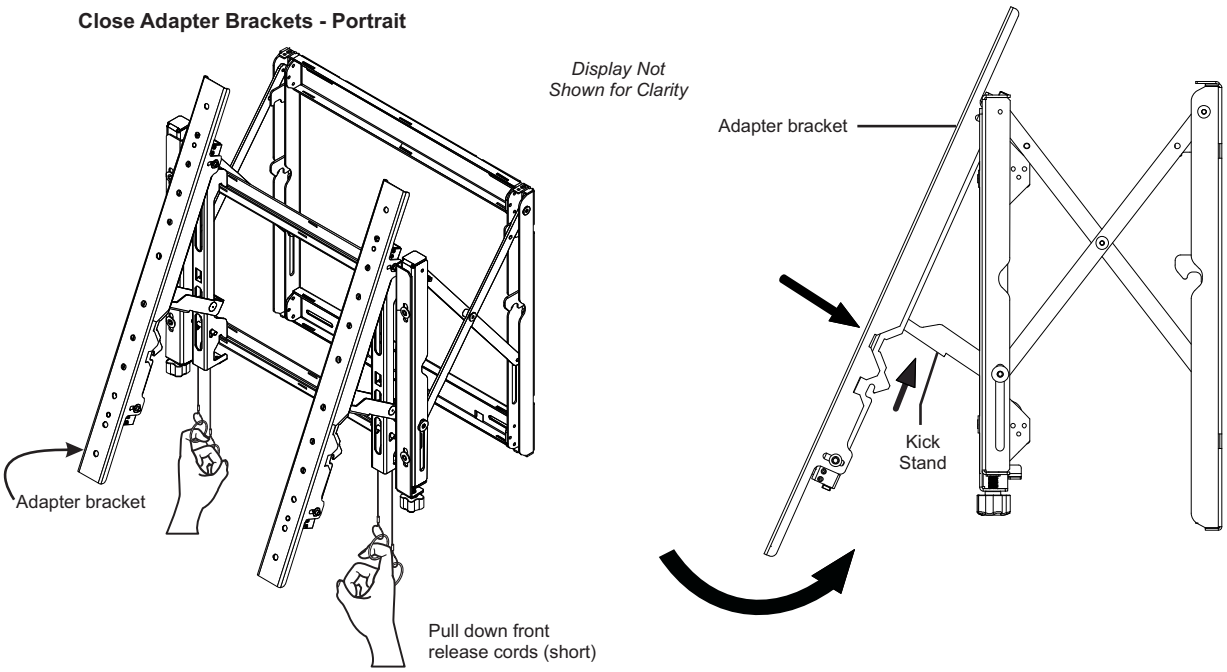


CLOSE ADAPTER BRACKETS

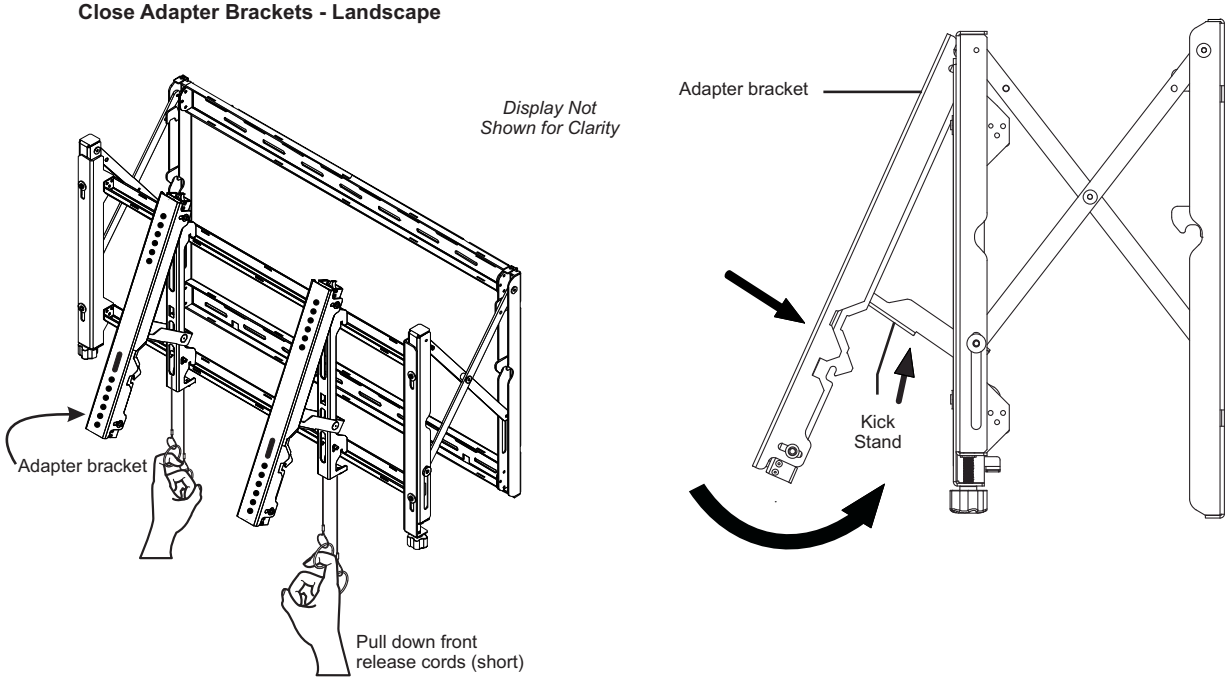
NOTICE: *Take caution when closing the adapter brackets to ensure the LCD panel is not damaged. Gently guide it back into place as you close the brackets.*

20. You may need to slightly pull the display away from the wall to release the kick stand.
21. Close the adapter brackets by pulling down on the short front release cords, as shown below. Once the short cords are pulled, the kick stand will disengage.

Close Adapter Brackets - Portrait



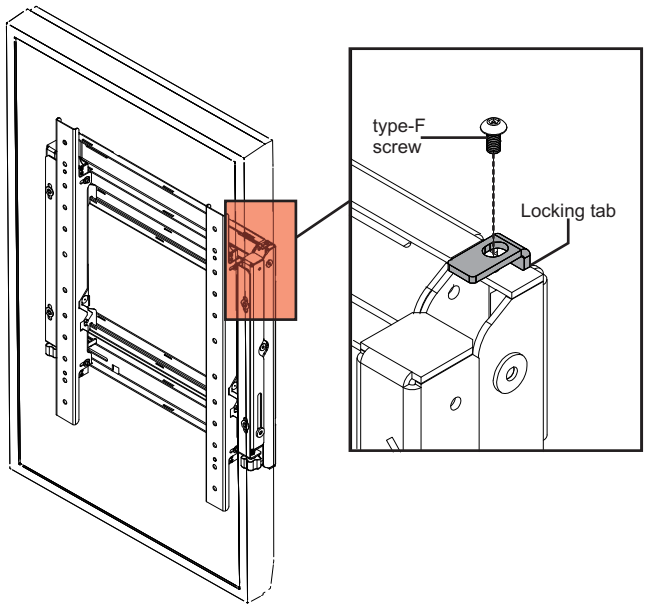
Close Adapter Brackets - Landscape



SECURE PULL OUT MOUNT ASSEMBLY (OPTIONAL)

To prevent the locking tabs from releasing, secure using 2 M5 x 10 mm socket pin type-F screws.

Landscape Orientation



Portrait Orientation